WHAT IS CLAIMED IS:

- 1 1. A propulsion system comprising:
- 2 an airflow inducement mechanism;
- a coanda comprising a leading edge and a trailing edge;
- 4 a wing comprising a leading edge and a trailing edge; and
- 5 a base having a curved surface;
- 6 the coanda is located adjacent the airflow inducement mechanism;
- 7 the wing is located adjacent the coanda such that there is a gap between the
- 8 coanda and the wing;
- 9 wherein the coanda and wing are mounted above the curved surface so that it
- defines a passageway between the curved surface and the wing and the coanda such that a
- 11 first airflow generated by the airflow inducement mechanism flows through the
- 12 passageway and induces a second airflow through the gap between the coanda and the
- wing, the second airflow creates a venturi in the passageway causing the velocity and
- density of the first airflow to increase.
- 1 2. A propulsion system as claimed in claim 1, further comprising a moveable flap
- 2 attached to the trailing edge of the coanda.
- 1 3. A propulsion system as claimed in claim 2, wherein the moveable flap is
- 2 comprised of a plurality of flaps.
- 1 4. A propulsion system as claimed in claim 1, further comprising a moveable flap
- 2 attached to the trailing edge of the wing.
- 1 5. A propulsion system as claimed in claim 4, wherein the moveable flap is
- 2 comprised of a plurality of flaps.

- 1 6. A propulsion system as claimed in claim 1, further comprising a movable flap
- 2 attached to the trailing edge of the curved surface.
- 1 7. A propulsion system as claimed in claim 6, wherein the moveable flap is
- 2 comprised of a plurality of flaps.
- 1 8. A propulsion system as claimed in claim 1, wherein the propulsion system is
- 2 attached to a wheeled conveyance.
- 1 9. A propulsion system as claimed in claim 1, wherein the propulsion system is
- 2 attached to a watercraft.
- 1 10. A propulsion system as claimed in claim 1, wherein the propulsion system is
- 2 attached to a hovercraft.
- 1 11. A propulsion system as claimed in claim 1, wherein the propulsion system is
- 2 rotationally attached to a wheeled conveyance.
- 1 12. A propulsion system as claimed in claim 1, wherein the propulsion system is
- 2 rotationally attached to a watercraft.
- 1 13. A propulsion system as claimed in claim 1, wherein the propulsion system is
- 2 rotationally attached to a hovercraft.
- 1 14. A propulsion system as claimed in claim 1, wherein the airflow inducement
- 2 mechanism is a fan driven by an internal combustion engine.
- 1 15. A propulsion system as claimed in claim 1, wherein the airflow inducement
- 2 mechanism is a fan driven by an electric motor.
- 1 16. A propulsion system as claimed in claim 1, wherein the airflow inducement
- 2 mechanism is a fan driven by a hydraulic motor.

- 1 17. A propulsion system as claimed in claim 1, wherein the airflow inducement
- 2 mechanism is a fan driven by a pneumatic motor.
- 1 18. A propulsion system comprising:
- 2 an airflow inducement mechanism;
- a coanda comprising a leading edge and a trailing edge;
- 4 a wing comprising a leading edge and a trailing edge;
- 5 a base having a curved surface with a trailing edge;
- one or more flaps attached to the trailing edge of the coanda;
- 7 one or more flaps attached to the trailing edge of the wing; and
- 8 one or more flaps attached to the trailing edge of the curved surface;
- 9 wherein the coanda is located adjacent the airflow inducement mechanism;
- the wing is located adjacent the coanda such that there is a gap between the coanda and the wing;
- wherein the coanda and wing are mounted above the curved surface so that it
- defines a passageway between the curved surface and the wing and the coanda such that a
- 14 first airflow generated by the airflow inducement mechanism flows through the
- passageway and induces a second airflow through the gap between the coanda and the
- wing, the second airflow creates a venturi in the passageway causing the velocity and
- 17 density of the first airflow to increase.
- 1 19. A crane comprising:
- a generally circular shaped body with a center and a curved surface;
- 3 the curved surface having a trailing edge;

- 4 an air flow inducement mechanism located above the curved surface at the center
- 5 of the body;
- a coanda extending radially outward from the center of the body and surrounding
- 7 the airflow inducement mechanism and having an interior surface, an exterior surface, a
- 8 trailing edge; and
- 9 a wing extending radially around the coanda and having a trailing edge;
- wherein the coanda and wing are mounted above the curved surface so that it
- defines a passageway between the curved surface and the wing and the coanda such that a
- 12 first airflow generated by the airflow inducement mechanism flows through the
- passageway and induces a second airflow through the gap between the coanda and the
- 14 wing, the second airflow creates a venturi in the passageway causing the velocity and
- density of the first airflow to increase.
- 1 20. A crane as claimed in claim 19, further comprising a moveable flap attached to
- 2 the trailing edge of the coanda.
- 1 21. A crane as claimed in claim 20, wherein the moveable flap is comprised of a
- 2 plurality of flaps.
- 1 22. A crane as claimed in claim 19, further comprising a moveable flap attached to
- 2 the trailing edge of the wing.
- 1 23. A crane as claimed in claim 22, wherein the moveable flap is comprised of a
- 2 plurality of flaps.
- 1 24. A crane as claimed in claim 19, wherein the airflow inducement mechanism is a
- 2 fan driven by an internal combustion engine.

- 1 25. A crane as claimed in claim 19, wherein the airflow inducement mechanism is a
- 2 fan driven by an electric motor.
- 1 26. A crane as claimed in claim 19, wherein the airflow inducement mechanism is a
- 2 fan driven by a hydraulic motor.
- 1 27. A crane as claimed in claim 19, wherein the airflow inducement mechanism is a
- 2 fan driven by a pneumatic motor.
- 1 28. A crane as claimed in claim 19, further comprising a moveable flap attached to
- 2 the trailing edge of the curved surface.
- 1 29. A crane as claimed in claim 28, wherein the moveable flap is comprised of a
- 2 plurality of flaps.
- 1 30. A crane as claimed in claim 19, further comprising a bypass between the interior
- 2 surface of the coanda and the exterior surface of the coanda.
- 1 31. A crane as claimed in claim 30, further comprising a moveable gate located in the
- 2 bypass.
- 1 32. A crane as claimed in claim 31, wherein the moveable gate is operated by
- 2 hydraulics.
- 1 33. A crane as claimed in claim 31, wherein the moveable gate is operated by
- 2 pneumatics.
- 1 34. A crane as claimed in claim 31, wherein the moveable gate is operated by a
- 2 mechanical linkage.

1	35. A crane comprising:
2	a generally circular shaped body with a center and a curved surface;
3	an air flow inducement mechanism located above the curved surface at the center
4	of the body;
5	the curved surface having a trailing edge;
6	a coanda extending radially outward from the center of the body and surrounding
7	the airflow inducement mechanism and having an interior surface, an exterior surface and
8	a trailing edge;
9	a wing extending radially around the coanda and having a trailing edge;
10	one or more flaps moveable attached to the trailing edge of the coanda;
11	one or more flaps moveable attached to the trailing edge of the wing;
12	one or more flaps moveably attached to the trailing edge of the curved surface;
13	and
14	a bypass between the interior surface of the coanda and the exterior surface of the
15	coanda, the bypass having a moveable gate;
16	wherein the coanda and wing are mounted above the curved surface so that it
17	defines a passageway between the curved surface and the wing and the coanda such that a
18	first airflow generated by the airflow inducement mechanism flows through the
19	passageway and induces a second airflow through the gap between the coanda and the

wing, the second airflow creates a venturi in the passageway causing the velocity and

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density of the first airflow to increase.